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# DS100 Door Sentry & Emergency Alarm System

## Submittal Package

as of 12/31/2013

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# DS100 Audible-Visual Annunciator Panel

## IL760 Specification Sheet

DS100 Door Monitoring & Emergency Alarm System • Rev. 4 - 04/2013

### Features

- Steady or pulsating tone
- Tone-off switch with auto reset
- Modular design
- Open or closed circuit detection

### Description

The DS100 is a zoned, audible-visual alarm-indicating system designed to monitor doors, windows, or any device that uses open or closed contact switches, including momentary emergency push buttons. Interruption or making of a circuit will cause the specific light indicator to latch on at the master panel and generate an alarm tone which may be silenced without cancelling the visual signal. The visual signal can only be reset at the master.

The PK2019A Power & Control Unit provides power, control and signalling circuits, plus a normally open and a normally closed auxiliary contact. Using a PK2019A provides a full-form "C" dry contact. Screw terminals are provided for wire termination. The PK2019A Power & Control Unit is surface mount, and is enclosed in an extruded aluminum case.

### Specifications

Connections: Screw terminals  
Transformer: 16 VAC, 30 VA  
System Power: 24 VDC

### Required Components

PK2019A Power & Control Unit  
SS106 Transformer



DS100/20 speaker panel,  
AM100/36 add-on panel  
and OF202 frame

DS100 Audible-Visual Annunciator Panel

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# IR019B Remote Tone Speaker

## IL456 Specification Sheet

Rev. 14 - 04/2013

### Features

- Automatic tone-off reset
- Reliable and rugged design

### Description

The IR019B Remote Tone Speaker provides remote tone annunciation when connected directly to a PK2019A Power & Control Unit, and in parallel with a TekTone® CM800-series or DS100-series Annunciator Panel.

The tone speaker features a momentary contact tone-off button for tone silencing. Depressing the tone-off button silences the tone at all IR019B locations. The tone-off light remains illuminated while tone-silencing is enabled. When the emergency initiating device has been reset, the tone-off will automatically reset.

### Specifications

Dimensions:	Height:	4.5" (115 mm)
	Width:	4.5" (115 mm)
Finish:	Satin brushed stainless steel	
Controls:	Individual replaceable push button with self-wiping contacts	
Indicators:	28 volt red light	
Speaker/Mic:	45-ohms, 2.5"	
Connections:	Pigtails	
Housing:	Standard 2-gang electrical box	

### Required Components

CM800 Emergency Call System

—or—

DS100 Door Sentry & Emergency Alarm System

PK2019A Power & Control Unit

SS106 Transformer



IR019B Remote Tone Speaker

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# PK2019A Power & Control Unit

## IL310 Specification Sheet

Rev. 15 - 04/2013

### Description

The TekTone® PK2019A Power & Control Unit is a general purpose power & control unit used with the CM800 Emergency Call System and the DS100 Door Sentry & Emergency Alarm System.

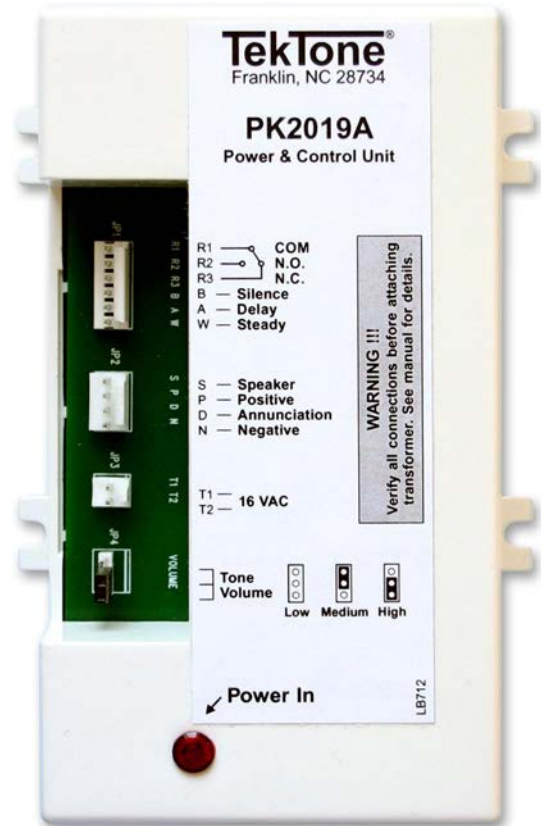
The PK2019A provides tone signal, tone silencing, tone-silenced indication, auxiliary signal relay, and 24 VDC for accessory device operation. The PK2019A also provides three levels of tone volume control.

### Specifications

Dimensions: Height: 5.5" (140 mm)  
Width: 3.125" (80 mm)  
Depth: 2.0" (51 mm)  
Power Required: 16 VAC 30 VA max.  
Output Current: 1 Amp. maximum  
Tone Speaker: 45 ohms (up to 3 in parallel)  
Tone-Off Lamp: 0.04 Amp. (up to 3 in parallel)  
Connections: Plug-in  
Construction: Flame-retardant (UL® 94V-0) plastic

### Required Components

CM800 Emergency Call System  
-or-  
DS100 Door Sentry & Emergency Alarm System  
  
SS106 Transformer



PK2019A Power & Control Unit

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# PK124K Battery Backup Kit

## IL818 Specification Sheet

Rev. 5 - 04/2013

### Features

- Low voltage operation
- Reliable alternate power supply
- Integrated circuit design
- Easy installation

### Description

The PK124K Battery Backup Kit provides continuous battery charging so that if power to system equipment is interrupted, standby operating power is provided for up to approximately 6 hours. (Time may vary depending on system size and usage.)

The PK124K kit includes a transformer, a battery charger and two batteries—all preinstalled in a 19-gauge cold-rolled steel housing. Knockouts are included on all sides except the lid, to allow connection of electrical conduit from any direction. In addition, the lid has a knockout which can be used to install an optional key lock. The enclosed single-gang electrical junction box is galvanized steel with a stainless steel cover plate.

TekTone® systems supported by the PK124K include the DS100 Door Sentry & Emergency Alarm System, the CM800 Emergency Call System, Tek-ENTRY® Apartment Entry Systems, and the Tek-SAFE® Area of Rescue Assistance System.

### Specifications

Dimensions:	Height:	11.75"	(300 mm)
	Width:	11.75"	(300 mm)
	Depth:	3.75"	(96 mm)
Construction:	19 gauge, cold-rolled steel		
Transformer:	24 VAC, 30 VA (SS106)		
Storage:	Two 12 VDC batteries (BA001)		
Connection:	Screw terminals (on PK124)		
Mounting:	Surface		



PK124K Battery Backup Kit

### Required Components

CM800 Emergency Call System  
DS100 Door Sentry & Emergency Alarm System  
Tek-ENTRY® Apartment Entry Systems  
—or—  
Tek-SAFE® Area of Rescue Assistance System

### Optional Components

Mier BW3000 Offset Cam Lock, or equivalent

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# SS102A and SS106 Transformers

## PO001 Electric Door Opener

### IL127 Specification Sheet

Rev. 14 - 04/2013



SS102A



SS106

SS102A and SS106 Transformers



PO001 Electric Door Opener

## Transformer Features

TekTone®'s SS102A and SS106 Class 2 Transformers offer compact, easy-to-install low voltage AC power sources for use with various TekTone® intercom systems. Both transformers are UL® Listed Class 2 transformers and will safely take themselves offline when overheated.

The transformers are constructed for easy surface installation or in a standard 1/2" knockout, and may be used in plastic or metal boxes. Primary wire connections are made using the pre-stripped pigtails and ground wire; secondary connections are made using screw terminals.

## Specifications

SS102A	120 VAC primary, 16 VAC 10 VA secondary
SS106	120 VAC primary, 8 VAC 20 VA 16/24 VAC 30 VA secondary

## Electric Door Opener Features

TekTone®'s PO001 Electric Door Opener is for use in unlocking and locking doors from a variety of TekTone® remote stations. The door opener can be installed in place of the door lock, or on a door jamb with various door locksets.

The PO001 is a normally locked type with heavy duty coils, and operates on 8-16 VAC or 3-6 VDC. The unit features a flat face with satin zinc finish and solid brass locking latch for long wear. The PO001 is reversible for mortise-type locks and latches up to 1/2" width and throw, and is ideal for most narrow jamb mortise-type installations. Depending on the specific job requirements, the PO001 can be reversed for right or left-hand door installation.

## Dimensions

Faceplate:	1.25" × 5.875"	(31.8 mm × 149 mm)
Case width:	0.9375"	(24 mm)
Case depth:	1.4375"	(37 mm)
Latch opening:	1.375"	(35 mm)

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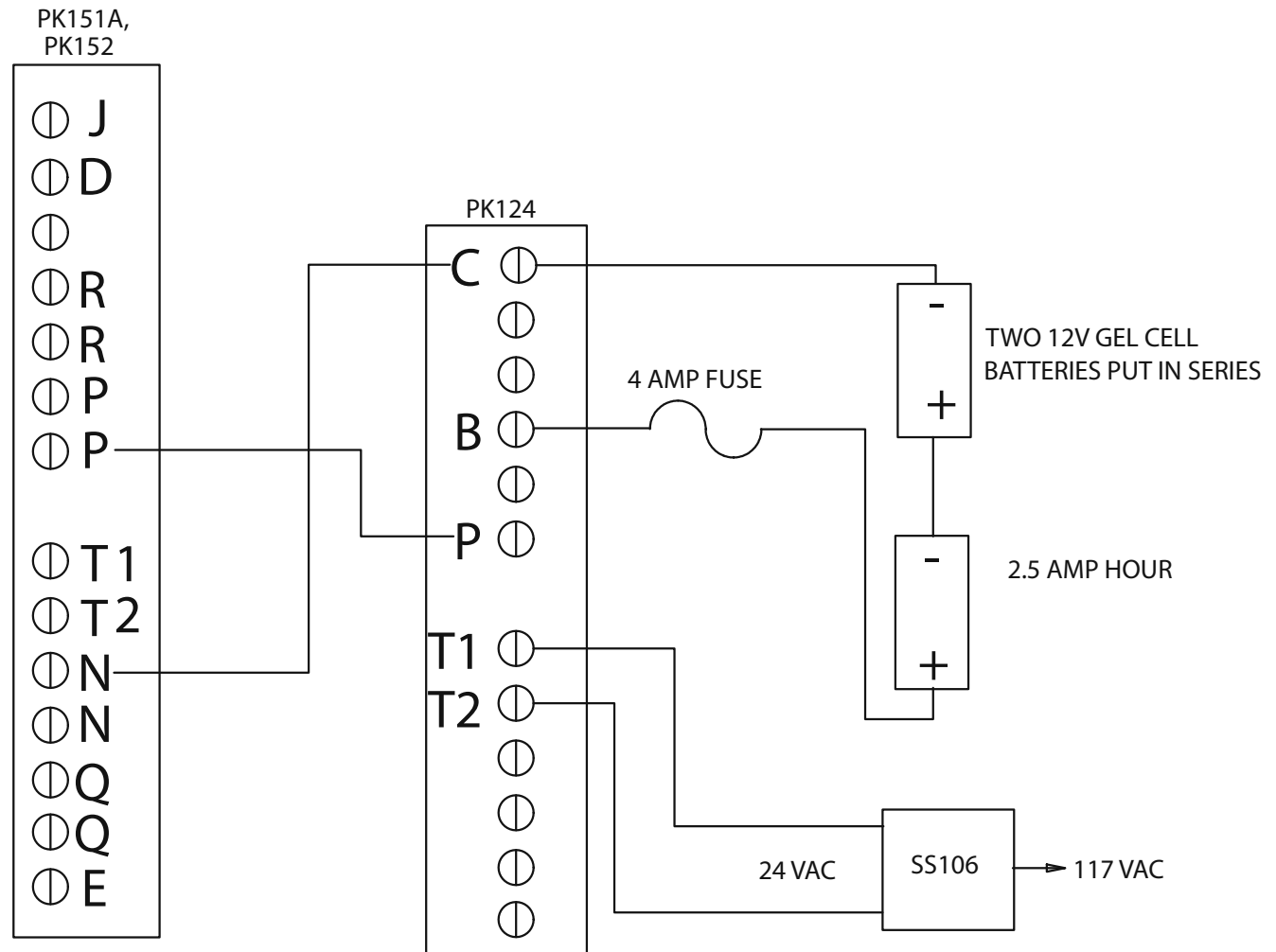
# PK124 Battery Charger

## IL426 Wiring Diagrams

Rev. 12 – 04/2013

**Figure 1—PK124 to PK151A or PK152 Interconnect Wiring Diagram**

*Tek-CARE® NC110, NC150 & NC200 Nurse Call Systems; Tek-SAFE® Area of Rescue Assistance System*



**Notes:**

1. Do not connect transformer to PK151A or PK152.
2. Use 24 VAC connections on SS106 transformer.
3. All wiring #18 unless shown.
4. See installation manual for additional PK151A or PK152 connections.

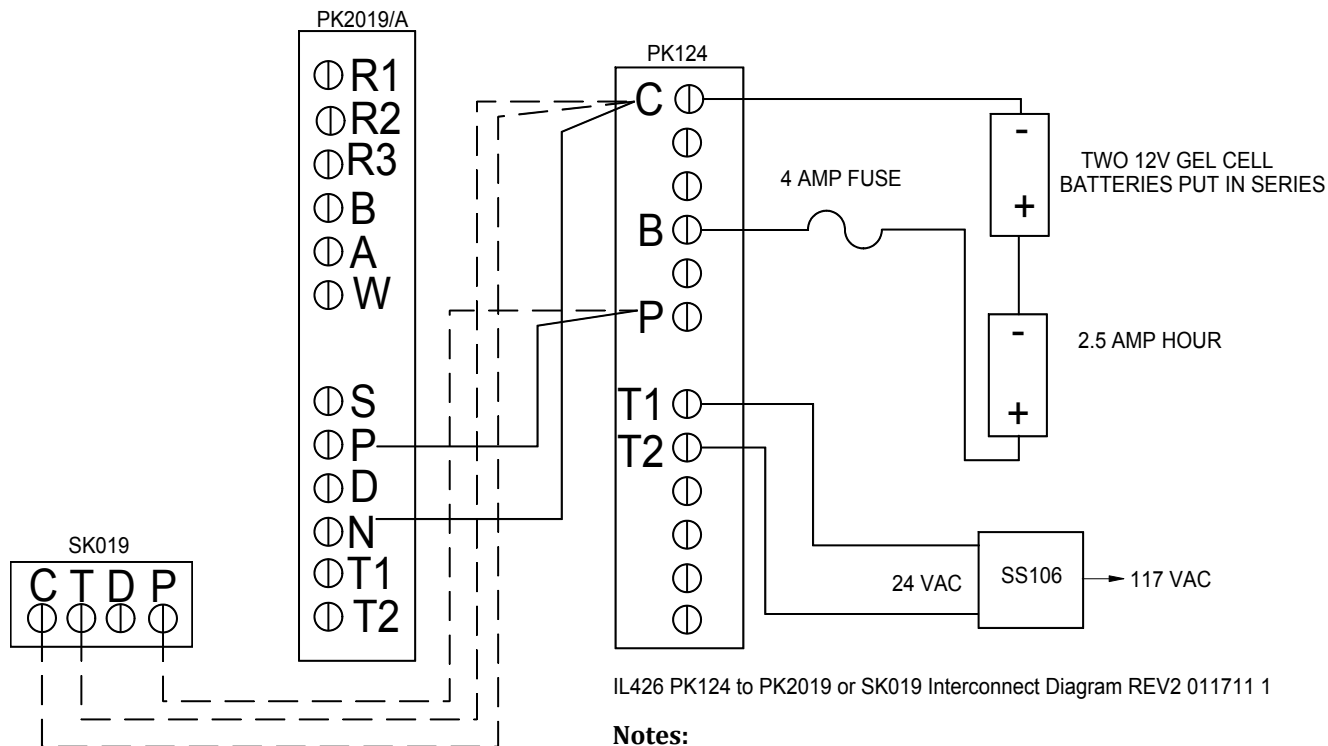
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**Figure 2—PK124 to PK2019/A or SK109 Interconnect Wiring Diagram**  
*CM800 & CM900 Emergency Call Systems; DS100 Emergency Call System*

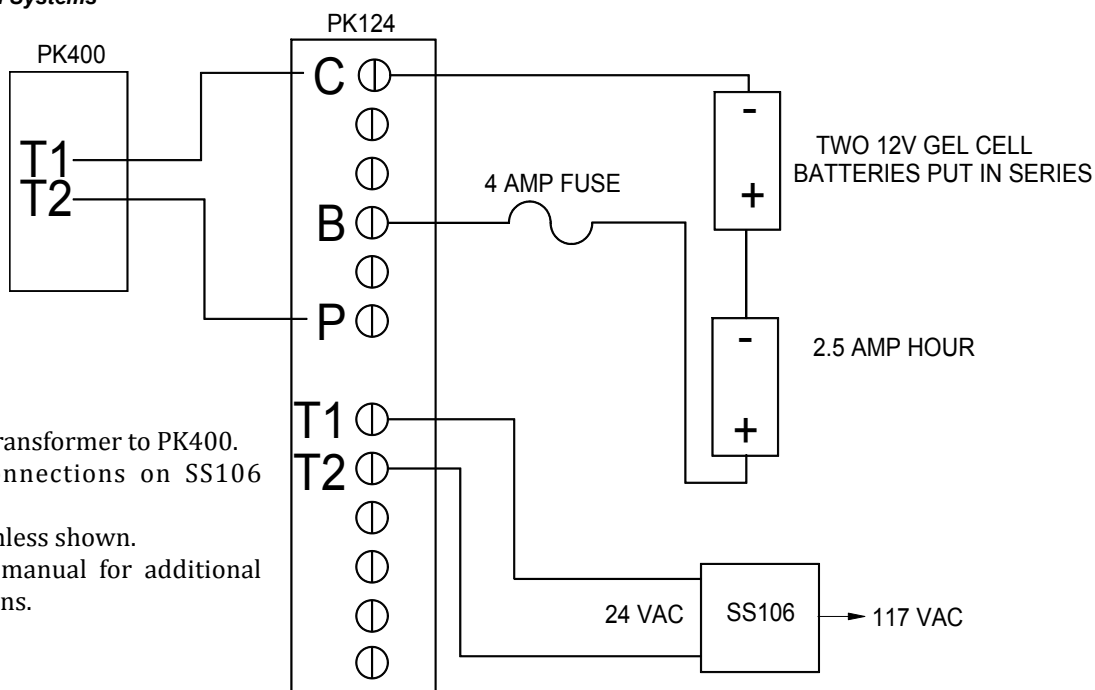


IL426 PK124 to PK2019 or SK019 Interconnect Diagram REV2 011711 1

**Notes:**

1. Do not connect transformer to PK2019/A or SK019.
2. Use 24 VAC connections on SS106 transformer.
3. All wiring #18 unless shown.
4. See installation manual for additional PK2019/A or SK019 connections.

**Figure 3—PK124 to PK400 Interconnect Wiring Diagram**  
*SM400-series Intercom Systems*



**Notes:**

1. Do not connect transformer to PK400.
2. Use 24 VAC connections on SS106 transformer.
3. All wiring #18 unless shown.
4. See installation manual for additional PK400 connections.

IL426 PK124 to PK400 Interconnect Diagram REV1 011711 1





# Housings Reference Chart

IL312  
Rev. 20 - 06/2013

## NOTES:

1. For SF-series Emergency Switches, use single-gang ring, or single-gang ring and double-gang box IH357/IH358.
2. For LI-series Dome Lights, use double-gang ring (or double-gang ring and box).
3. For AM- and CM-series, see specification requirements.
4. For IR300-series Nurse Call Stations, use Steel City #3GC and #H3BD or exact equivalent.
5. For IR150B-series, use Steel City #3GC and #H3BD. If space is limited, use ARC-CO #2GBD and #3GC.
6. For IR150SS Station, use OH600 flush housing mounted horizontally.
7. The last two digits of frame and housing model numbers indicate the number of gangs (i.e., panel capacity). Exceptions: IH101, IH103, OH600, OH601, IH400A.
8. Attach the IH103 mounting plate to a finished wall, single-gang box, double-gang box or square masonry box.

Model #	IH101 backbox (flush)	IH103 plate (flush)	IH400A housing (desk)
IR100B	×	×	×
IR102C	×	×	×
IR103E	×	×	×
IR104E	×	×	×
IR105E	×	×	×
IR203E		×	×
IR204E		×	×
IR205E		×	×
IR207B	use standard 2-gang electrical box		
IR704BD	×	×	×
OR500 series	×	×	
OR600 series	use standard 1-gang electrical box		
SM201B SM201K/P	use standard 1-gang electrical box		×

## Dimension and Finish Chart—Housings, Frames, Desk Cabinets

### Flush Mount Housings

Model#	Overall Width	Wall Cutout Width	Overall Height	Wall Cutout Height	Overall Depth
IH101	4"	4-1/4"	5-1/2"	5-3/4"	1-3/4"
IH103	4-9/16"	n/a	5-7/8"	n/a	1/16"
OH150	5-1/4"	4-1/2"	12-5/8"	11-5/8"	3-3/4"
OH191	4-3/8"	4-1/2"	17-1/8"	17-1/4"	3-1/2"
OH192	8-3/8"	8-1/2"	17-1/8"	17-1/4"	3-1/2"
OH193	12-3/8"	12-1/2"	17-1/8"	17-1/4"	3-1/2"
OH194	16-3/8"	16-1/2"	17-1/8"	17-1/4"	3-1/2"
OH195	20-3/8"	20-1/2"	17-1/8"	17-1/4"	3-1/2"
OH201	5-3/8"	4-1/2"	16-7/8"	16-1/4"	3-7/8"
OH202	9-3/8"	8-1/2"	16-7/8"	16-1/4"	3-7/8"
OH203	13-3/8"	12-1/2"	16-7/8"	16-1/4"	3-7/8"
OH600	4"	4-1/4"	10-3/16"	10-3/8"	1-13/16"
OH601	4"	4-1/4"	16-1/16"	16-1/4"	1-13/16"

### Flush Mount Frames

Model #	Width	Wall Cutout
OF191	6-1/4"	-
OF192	10-1/4"	-
OF193	14-1/4"	-
OF194	18-1/4"	-
OF195	22-1/4"	-
Height: 19" (overall)		
Depth: 7/8"		
OF201	6-1/4"	4-1/2"
OF202	10-1/4"	8-1/2"
OF203	14-1/4"	12-1/2"
Height: 17-3/4" (overall)		
Cutout: 15-7/8"		
Depth: 2-1/2"		

### Desk Cabinets

Model #	Width	Depth
*IH302	9-1/2"	6"
*IH303	13-1/2"	6"
*IH304	17-1/2"	6"
IH400A (white)	5"	7"

\* Cabinet Assembly Only.  
IH300 series Height = 17"

### Surface Mount Frames

Model #	Width	Height	Depth
OF190S	4-1/4"	19-3/4"	1-1/2"
OF191S	6-1/4"	19"	2-1/4"
OF192S	10-1/4"	19"	2-1/4"
OF193S	14-1/4"	19"	2-1/4"
OF194S	18-1/4"	19"	2-1/4"
OF195S	22-1/4"	19"	2-1/4"

### Surface Mount Housings

Model #	Width
OH301	6-1/8"
OH302	10-1/8"
Height: 17-3/4"	
Depth: 3-5/8"	

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